



The CO₂ Sensor Family Expands!

NEW C7232 carbon dioxide (CO₂) sensor models provide exceptional long term monitoring and control of space ventilation at lower cost. Ultra compact size, quicker and easier installation, selectable ranges, choice of “Honeywell” or unlabeled models, analog plus relay output. **Bottom line: highest quality at lower cost.**

Exceptional Design

All new C7232 and current C7242 models include state of the art NDIR technology plus a unique corrosion-free designed sensing chamber. This patented industry breakthrough combination provides accurate and stable CO₂ readings for years, not just months and avoids costly and inconvenient re-calibration. Maximum energy savings and proper ventilation control for YEARS.

- Superior NDIR technology with extremely durable light and receptor
- Patented gold-plated sensing chamber to eliminate a primary source of “drift” and provide long term accuracy
- Automatic Background Calibration (ABC) to re-establish outdoor ambient concentration levels
- Choice of display or non-display models
- Selectable or configurable analog output
- Choice of relay output for on/off control or VDC/mA analog output for optimized modulating demand control ventilation (DCV)

Superior Performance

- Calibration interval: 5 years
- Sensor life expectancy: 15 years
- Annual drift: 20 ppm

- Approved by California Energy Commission for compliance with Title 24 ventilation standards

Application Versatility

- Honeywell Fresh Air Economizer Systems featuring demand control ventilation (DCV) for retail stores, offices, schools, restaurants, theaters, auditoriums, museums and other “variable occupancy” applications
- HVAC building management system input for monitoring ventilation rates, indication of occupancy, clogged filter/inoperable ventilation component alert, smoke/fire advance warning
- C7242 Portable units provide convenient space diagnostics, ventilation effectiveness, outdoor air ambient levels for setting indoor threshold based on ventilation rates, not just arbitrary levels
- Food manufacturing and storage: mushrooms, flower growers and



Cost effective rooftop solutions – Integrated economizer/DCV System

nurseries for CO₂ level control; dairy ventilation and agricultural animal confinement; breweries and restaurants/pubs

Building managers and owners are becoming increasingly aware that only controlling “temperature” is not sufficient to meet occupant’s comfort and health needs. Proper ventilation can contribute to increased productivity, improved employee satisfaction, lower absenteeism and reduced health costs. It can also reduce tenant turnover and contribute to maximizing profits in leased space. But, what system can meet these comfort and ventilation needs while avoiding costly over-ventilation during lower occupancy periods?

Honeywell Fresh Air Economizer Systems with integrated demand control ventilation are compatible with most individual packaged rooftop or built-up air handling units. They automatically sense when the outside air is right to provide free cooling as a first stage of air



C7232B
Duct Mount

C7232A
Wall Mount

New C7232 Models
Lower cost – ultra compact

Deliver maximum energy savings and proper ventilation year around with Honeywell's Integrated Economizer and Demand Control Ventilation System.



conditioning. In addition, they dramatically reduce over-ventilation in air conditioning AND heating modes to lower energy consumption and still deliver fresh air based on actual occupancy. Honeywell's new C7232 and current C7242 CO₂ sensors reliably detect increased or decreased levels of occupancy and modulate fresh air according to need, not based on fixed "maximum design occupancy."

Honeywell Fresh Air Economizer Systems with solid state enthalpy changeover and integrated demand control ventilation can deliver 30% to over 50% energy savings depending on climate, utility rates, particular building design/type and occupancy patterns. For more details go

to: <http://www.honeywell.com/building/components>. Read ASHRAE Abstract #4276 (63-7063) and other materials regarding demand control ventilation. Request your FREE "Energy Estimator" CD-ROM (63-E7071) by e-mail at info@honeywell.com. Compare building energy usage changes based on economizer strategy and other variables. Bottom line:

- Triple your savings over "cooling only" economizing
- Deliver 5 to 10 times the savings compared to conventional temperature economizer changeover

Energy usage modeling provided by Michael J. Brandemuehl, Director of the Joint Center for Energy Management, University of Colorado, Boulder and James E. Braun, Associate Professor at the Ray W. Herrick Laboratories, Purdue University.

Table 1. New C7232 Models - Lower cost-smaller size

Model #	Base Price	Mounting	Output Type	Display	HW Logo	Output Choice	Details
C7232A1008	496.00	Wall	One analog* - one SPST relay	Yes	Yes	Selectable	replaces C7242A1030
C7232A1016	482.00	Wall	One analog* - one SPST relay	No	Yes	Selectable	replaces C7242A1048
C7232A1024	496.00	Wall	One analog* - one SPST relay	Yes	No	Selectable	—
C7232A1032	482.00	Wall	One analog* - one SPST relay	No	No	Selectable	Available Feb. 2001
C7232B1006	582.00	Duct	One analog* - one SPST relay	Yes	Yes	Selectable	—
C7232B1014	567.00	Duct	One analog* - one SPST relay	No	Yes	Selectable	—
C7232B1022	582.00	Duct	One analog* - one SPST relay	Yes	No	Selectable	—
C7232B1030	567.00	Duct	One analog* - one SPST relay	No	No	Selectable	Available Feb. 2001

Table 2. Current C7242 Models - More model choices-configurable output

Model #	Base Price	Mounting	Output Type	Display	HW Logo	Output Choice	Details
C7242A1014	694.12	Wall	Two analog*	Yes	Yes	Software Configurable	—
C7242A1022	679.41	Wall	Two analog*	No	Yes	Software Configurable	—
C7242A1030	694.12	Wall	One analog* - one SPST relay	Yes	Yes	Software Configurable	discontinued, see C7232
C7242A1048	679.41	Wall	One analog* - one SPST relay	No	Yes	Software Configurable	discontinued, see C7232
C7242B1012	917.65	Duct	Two analog*	Yes	Yes	Software Configurable	—
C7242B1020	900.00	Duct	Two analog*	No	Yes	Software Configurable	—
C7242C1002	876.47	Portable	One analog* 0 to 5 Vdc	Yes	Yes	Software Configurable	9Vdc battery, 120 vac transformer/charger

*Select 0/2 Ip 10 Vdc or 0/4 to 20 mA

Accessories: 32002181-001 Lightweight zero calibration kit for all C7232/C7242 models
 32002182-001 Duct mount housing only - C7242 models only
 32002183-001 Strategy configuration software - C7242 models only

Honeywell

Home and Building Control

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